

## ANALYTICA CHIMICA ACTA, VOL. 234 (1990)

## AUTHOR INDEX

- Alonso, J., see Lima, J.L.F.C. 221
- Araujo, A.N., see Montesinos, J.L. 67
- Ariel, M., see Goldik, R. 161
- , see Noufi, M. 475
- Armstrong, D.W.
- , Li, W., Stalcup, A.M., Secor, H.V., Izac, R.R. and Seeman, J.I.
- Capillary gas chromatographic separation of enantiomers with stable dipentyl- $\alpha$ -,  $\beta$ - and  $\gamma$ -cyclodextrin-derivatized stationary phases 365
- Arruda, M.A.Z., see Zagatto, E.A.G. 153
- Aw, T.-C., see Gunasingham, H. 321
- Awaad, M.F., see Gündüz, T. 339
- Baeyens, W.R.G., see Lansens, P. 417
- , Lin Ling, B., Corbisier, V. and Raemdonck, A.
- Enhanced fluorescence from *o*-phthalaldehyde and fluorescamine fluorophores using Triton and  $\beta$ -cyclodextrin 187
- Balconi, M.L.
- , Sigon, F., Borgarello, M., Ferraroli, R. and Realini, F.
- Flow-injection analysis for power plants: Evaluation of detectors for the determination of control parameters in conditioned water-steam cycles 167
- Barceló, D., see Farran, A. 119
- Bartoli, J., see Lima, J.L.F.C. 221
- , see Montesinos, J.L. 67
- Bergamin F<sup>o</sup>, H., see Giné, M.F. 207
- Bianco, P., see Haladjian, J. 471
- Blanco, M.
- , Coello, J., Iturriaga, H., Maspoch, S. and Riba, J.
- Precision of a diode-array spectrophotometer 395
- Blanco González, E., see Merino Merino, I. 127
- Blauw, J.S., see Driebergen, R.J. 285
- Borgarello, M., see Balconi, M.L. 167
- Bortolus, P.
- , Galiasso, G. and Gennari, G.
- Trifluoroethanol as a solvent for discriminating the fluorescence of polynuclear aza-aromatic compounds from that of the parent hydrocarbon 353
- Bruno, A.E.
- , Kuhn, R. and Widmer, H.M.
- Theoretical considerations on the design of cylindrical flow cells utilizing optical fibres 259
- Burguera, J.L.
- , Burguera, M., Rivas, C., De La Guardia, M. and Salvador, A.
- Simple variable-volume injector for flow-injection systems 253
- Burguera, M., see Burguera, J.L. 253
- Cardwell, T.J., see Freeman, P.R. 409
- Cassidy, J.
- and Lowney, C.
- Differential-pulse anodic stripping voltammetry at mercury-poly(4-vinylpyridine) coatings on glassy carbon electrodes 479
- Castaho, A., see Tarazona, J.V. 193
- Centrich, F., see Núñez, M.D. 269
- Chen, D.
- , Luque De Castro, M.D. and Valcárcel, M.
- Fluorimetric sensor for the determination of fluoride at the nanograms per millilitre level 345
- Cheng, W.-T., see Yu, F.-B. 487
- Christian, G.D., see Ruzicka, J. 31
- Chute, G.S.
- , Weginwar, R.G. and Garg, A.N.
- Substoichiometric isotope dilution determination of manganese in biological samples using 2-thenoyltrifluoroacetone in isobutyl methyl ketone 445
- Coello, J., see Blanco, M. 395
- Conceição B.S.M. Montenegro, M., see Lima, J.L.F.C. 221
- Corbisier, V., see Baeyens, W.R.G. 187
- Cortina, J.L., see Farran, A. 119
- De La Guardia, M., see Burguera, J.L. 253
- Del Pilar Da Silva De Campos, M.
- , Rodríguez Procopio, J. and Hernandez Hernandez, L.
- Determination of 1,4-thienodiazepines by liquid chromatography with spectrophotometric, amperometric and coulometric detection 175
- Del Valle, M., see Montesinos, J.L. 67
- De Pablo, J., see Farran, A. 119
- Dewaele, C., see Nagels, L.J. 75
- Díaz García, M.E., see González Alvarez, M.J. 181
- , see Liu, Y.-M. 233
- Ding, T.
- and Schmid, R.D.
- Rapid determination of microorganisms using a flow-injection system 247
- Dremel, B.A.A.
- , Yang, W. and Schmid, R.D.
- On-line determination of lactic acid during kefir fermentation based on a fibre-optic lactic acid biosensor and flow-injection analysis 107
- Driebergen, R.J.
- , Holthuis, J.J.M., Blauw, J.S., Postma Kelder, S.J., Verboom, W., Reinhoudt, D.N. and Van der Linden, W.E.

- Electrochemistry of potential bioreductive alkylating quinones. Part 2. Electrochemical properties of 2,5-bis(1-aziridinyl)-3,6-bis(ethoxycarbonylamino)-1,4-benzoquinone and some model compounds 285
- Duan, J., see Jiang, M. 403
- Emnéus, J.  
— and Gorton, L.  
Effects on the hydrolysis of native starch and glycogen by a thermostable  $\alpha$ -amylase after immobilization on solid supports 97
- Farran, A.  
—, Cortina, J.L., De Pablo, J. and Barceló, D.  
On-line continuous-flow extraction system in liquid chromatography with ultraviolet and mass spectrometric detection for the determination of selected organic pollutants 119
- Fell, A.F.  
—, Woldemariam, T.Z., Linley, P.A., Jian, G., Luque De Castro, M.D. and Valcárcel, M.  
Post-column continuous-flow analysis combined with reversed-phase liquid chromatography and computer-aided photodiode-array detection for the characterization of phloroglucinols by second-derivative difference spectroscopy 89
- Fernandez De La Campa, M.R., see Liu, Y.M. 233
- Ferraroli, R., see Balconi, M.L. 167
- Freeman, P.R.  
—, McKelvie, I.D., Hart, B.T. and Cardwell, T.J.  
Flow-injection technique for the determination of low levels of phosphorus in natural waters 409
- Fromageat, A., see Thommen, C. 141
- Galeano, T., see Muñoz De La Peña, A. 263
- Galiazzo, G., see Bortolus, P. 353
- Gallego, B., see Tarazona, J.V. 193
- Gallego, M., see Montero, R. 433
- Garg, A.N., see Chute, G.S. 445
- Gennari, G., see Bortolus, P. 353
- Gibbs, B.F., see Mulchandani, A. 465
- Giné, M.F.  
—, Bergamin F<sup>o</sup>, H., Reis, B.F. and Tuon, R.L.  
Intelligent flow-injection-inductively coupled plasma system for matrix matching 207
- Goldik, R.  
—, Yarnitzky, C. and Ariel, M.  
Determination of magnesium in blood serum using a flow-injection system with a potential-scanning electrochemical detector equipped with a thin-film deaerator 161
- González Alvarez, M.J.  
—, Díaz García, M.E. and Sanz-Medel, A.  
Exploitation of synthetic surfactant vesicles for enhanced fluorescence of metal chelates 181
- Gorton, L., see Emnéus, J. 97  
—, see Marko-Varga, G. 13
- Guardia, M. De La, see Burguera, J.L. 253
- Guiberteau, A., see Muñoz De La Peña, A. 263
- Gunasingham, H.  
—, Tan, C.-H. and Aw, T.-C.  
Comparative study of first-, second- and third-generation amperometric glucose enzyme electrodes in continuous-flow analysis of undiluted whole blood 321
- Gündüz, T.  
—, Kılıç, E., Özkan, G., Awaad, M.F. and Taştekin, M.  
Conductimetric and potentiometric titrations of phenolic acids with triethylamine and tetrabutylammonium hydroxide in acetonitrile 339
- Haladjian, J.  
— and Bianco, P.  
Polarographic determination of carbodiimides 471
- Hart, B.T., see Freeman, P.R. 409
- Hernandez Hernandez, L., see Del Pilar Da Silva De Campos, M. 175
- Holthuis, J.J.M., see Dribergen, R.J. 285
- Iturriaga, H., see Blanco, M. 395
- Izac, R.R., see Armstrong, D.W. 365
- Jacintho, A.O., see Zagatto, E.A.G. 153
- Jian, G., see Fell, A.F. 89
- Jiang, F., see Jiang, M. 403
- Jiang, M.  
—, Jiang, F., Duan, J., Tang, X. and Zhao, Z.  
Spectrophotometric determination of trace nitrite based on catalytic oxidation of thionine by potassium bromate 403
- Kauffmann, J.M., see Nagels, L.J. 75
- Kılıç, E., see Gündüz, T. 339
- Kindervater, R.  
—, Künnecke, W. and Schmid, R.D.  
Exchangeable immobilized enzyme reactor for enzyme inhibition tests in flow-injection analysis using a magnetic device. Determination of pesticides in drinking water 113
- Kolev, S.D.  
—, Tóth, K., Lindner, E. and Pungor, E.  
Flow-injection approach for the determination of the dynamic response characteristics of ion-selective electrodes. Part 1. Theoretical considerations 49  
—, see Tóth, K. 57
- Kuhn, R., see Bruno, A.E. 259
- Künnecke, W.  
— and Schmid, R.D.  
Gas-diffusion dilution flow-injection method for the determination of ethanol in beverages without sample pretreatment 213
- Künnecke, W., see Kindervater, R. 113
- Lansens, P.  
—, Meuleman, C., Leermakers, M. and Baeyens, W.  
Determination of methylmercury in natural waters by headspace gas chromatography with microwave-induced plasma detection after preconcentration on a resin containing dithiocarbamate groups 417

- Lechner, J.F., see Sekerka, I. 199
- Leermakers, M., see Lansens, P. 417
- Leon, L.E.  
—, Rios, A., Luque De Castro, M.D. and Valcárcel, M.  
Integrated photochemical reaction/electrochemical detection in flow-injection systems: kinetic determination of oxalate 227
- Leporati, E.  
Alkanohydroxamic acids in the accurate computer-aided spectrophotometric determination of copper(II) 387  
Computer-aided method for simultaneous determination of substances in solution by spectrophotometry 381
- Li, W., see Armstrong, D.W. 365
- Lima, J.L.F.C.  
—, Conceição B.S.M. Montenegro, Alonso, J., Bartroli, J. and Raurich, J.G.  
5,5-Diethylbarbiturate tubular electrode for use in flow-injection detection systems 221  
—, see Montesinos, J.L. 67
- Lin, M.S., see Wijesuriya, D. 453
- Lindner, E., see Kolev, S.D. 49  
—, see Tóth, K. 57
- Linley, P.A., see Fell, A.F. 89
- Lin Ling, B., see Baeyens, W.R.G. 187
- Liu, Y.-M.  
—, Fernandez De La Campa, M.R., Díaz García, M.E. and Sanz-Medel, A.  
Phosphorescence detection in flowing systems: selective determination of aluminium by flow-injection liquid room-temperature phosphorimetry 233
- Lowney, C., see Cassidy, J. 479
- Luong, J.H.T., see Mulchandani, A. 465
- Luque De Castro, M.D., see Chen, D. 345  
—, M.D., see Fell, A.F. 89  
—, see Leon, L.E. 227
- McKelvie, I.D., see Freeman, P.R. 409
- Male, K.B., see Mulchandani, A. 465
- Manuel de Villena, J., see Yáñez-Sedeño, P. 309
- Marko-Varga, G.  
— and Gorton, L.  
Post-column derivatization in liquid chromatography using immobilized enzyme reactors and amperometric detection 13
- Maspoch, S., see Blanco, M. 395
- Mattos, I.L., see Zagatto, E.A.G. 153
- Mazzetto, G., see Sentimenti, E. 425
- Menéndez García, A.  
—, Sánchez Uría, E. and Sanz-Medel, A.  
Tandem on-line continuous separation and determination of arsenic by inductively coupled plasma atomic emission spectrometry 133
- Merino Merino, I.  
—, Blanco González, E. and Sanz-Medel, A.  
Liquid chromatographic enantiomeric resolution of amino acids with  $\beta$ -cyclodextrin bonded phases and derivatization with  $\alpha$ -phthalaldehyde 127
- Meuleman, C., see Lansens, P. 417
- Miles, R., see Roscoe, G.E. 439
- Montero, R.  
—, Gallego, M. and Valcárcel, M.  
Indirect flow-injection determination of methadone by atomic absorption spectrometry 433
- Montesinos, J.L.  
—, Bartroli, J., Poch, M., Del Valle, M., Lima, J.L.F.C. and Araujo, A.N.  
Mathematical modelling of sequential determinations by flow-injection sandwich techniques 67
- Moreno Cordero, B.  
— and Perez Pavon, J.L.  
Detection of slightly soluble systems by means of organized media in flow-injection analysis 239
- Mulchandani, A.  
—, Male, K.B., Luong, J.H.T. and Gibbs, B.F.  
Enzymatic assay technique for the determination of aspartame 465
- Muñoz De La Peña, A.  
—, Salinas, F., Galeano, T. and Guiberteau, A.  
Application of time-domain differentiation of chromatographic peaks in liquid chromatography 263
- Nagels, L.J.  
—, Kauffmann, J.M., Dewaele, C. and Parmentier, F.  
Convection/diffusion- and diffusion-controlled rapid-scan voltammetry in liquid chromatographic systems with a large-volume wall-jet detector 75
- Nakao, I., see Sano, A. 359
- Naser, N., see Wang, J. 315
- Noufi, M.  
—, Yarnitzky, CH. and Ariel, M.  
Determination of nitrate with a flow-injection system combining square-wave polarographic detection with on-line deaeration 475
- Núñez, M.D.  
— and Centrich, F.  
Liquid chromatographic method with fluorescence detection for the determination of polycyclic aromatic hydrocarbons in environmental samples 269
- Obergfell, P., see Thommen, C. 141
- Osteryoung, J., see Wechter, C. 275
- Özkan, G., see Gündüz, T. 339
- Ozsoz, M., see Wang, J. 315
- Pablo, J. De, see Farran, A. 119
- Palleschi, G.  
— and Turner, A.P.F.  
Amperometric tetrathiafulvalene-mediated lactate electrode using lactate oxidase absorbed on carbon foil 459
- Pannocchia, G., see Sentimenti, E. 425
- Parmentier, F., see Nagels, L.J. 75
- Perez Pavon, J.L., see Moreno Cordero, B. 239
- Pilar Da Silva De Campos, M. Del., see Del Pilar Da Silva De Campos, M. 175

- Pingarrón, J.M., see Yáñez-Sedeño, P. 309
- Poch, M., see Montesinos, J.L. 67
- Polo, L.M., see Yáñez-Sedeño, P. 309
- Postma Kelder, S.J., see Dribergen, R.J. 285
- Pungor, E., see Kolev, S.D. 49
- , see Tóth, K. 57
- Raemdonck, A., see Baeyens, W.R.G. 187
- Raurich, J.G., see Lima, J.L.F.C. 221
- Realini, F., see Balconi, M.L. 167
- Rechnitz, G.A., see Wijesuriya, D. 453
- Reinhoudt, D.N., see Dribergen, R.J. 285
- Reis, B.F., see Giné, M.F. 207
- Ren, Y., see Zhang, P. 483
- Riba, J., see Blanco, M. 395
- Ríos, A., see Leon, L.E. 227
- Rivas, C., see Burguera, J.L. 253
- Rodriguez Procopio, J., see Del Pilar Da Silva De Campos, M. 175
- Romagnoli, R.
- and Vetere, V.F.
- Potentiometric behaviour of the copper electrode in aqueous copper(II) perchlorate solutions containing sodium chloride 331
- Roscoe, G.E.
- , Miles, R. and Taylor, C.G.
- Determination of potassium in gasoline and lubricating oils by a flow-injection technique with flame atomic emission spectrometric detection 439
- Ruzicka, J.
- and Christian, G.D.
- Reversible optosensing in packed flow-through detectors: flow injection or chromatography? 31
- Salinas, F., see Muñoz De La Peña, A. 263
- Salvador, A., see Burguera, J.L. 253
- Sánchez Uría, E., see Menéndez García, A. 133
- Sano, A.
- , Nakao, I. and Takitani, S.
- Spectrofluorimetric assays for rat liver phenol sulphotransferases I/II and III/IV based on a common substrate 359
- Sanz-Medel, A., see González Alvarez, M.J. 181
- , see Liu, Y.M. 233
- , see Menéndez García, A. 133
- , see Merino Merino, I. 127
- Schmid, R.D., see Ding, T. 247
- , see Dremel, B.A.A. 107
- , see Kindervater, R. 113
- , see Künnecke, W. 213
- , see Stöcklein, W. 83
- Secor, H.V., see Armstrong, D.W. 365
- Seeman, J.L., see Armstrong, D.W. 365
- Sekerka, I.
- and Lechner, J.F.
- Automated method for the determination of boron in water by flow-injection analysis with in-line preconcentration and spectrophotometric detection 199
- Sentimenti, E.
- , Mazzetto, G. and Pannocchia, G.
- Detection of trace elements in pure indium by flame, Zeeman graphite furnace and hydride generation atomic absorption spectrometry 425
- Sigon, F., see Balconi, M.L. 167
- Stalcup, A.M., see Armstrong, D.W. 365
- Stöcklein, W.
- and Schmid, R.D.
- Flow-injection immunoanalysis for the on-line monitoring of monoclonal antibodies 83
- Takitani, S., see Sano, A. 359
- Tan, C.-H., see Gunasingham, H. 321
- Tang, X., see Jiang, M. 403
- , see Yan, Z. 493
- Tarazona, J.V.
- , Castaño, A. and Gallego, B.
- Detection of organic toxic pollutants in water and wastewater by liquid chromatography and in vitro cytotoxicity tests 193
- Taştekin, M., see Gündüz, T. 339
- Taylor, C.G., see Roscoe, G.E. 439
- Thommen, C.
- , Fromageat, A., Obergfell, P. and Widmer, H.M.
- Application of a capillary flow cell to sophisticated flow-injection systems 141
- Tóth, K., see Kolev, S.D. 49
- , Lindner, E., Pungor, E. and Kolev, S.D.
- Flow-injection approach for the determination of the dynamic response characteristics of ion-selective electrodes. Part 2. Application to tubular solid-state iodide electrode 57
- Tuon, R.L., see Giné, M.F. 207
- Turner, A.P.F., see Palleschi, G. 459
- Tyson, J.F.
- Atomic spectrometric detectors for flow-injection analysis 3
- Valcárcel, M., see Chen, D. 345
- , see Fell, A.F. 89
- , see Leon, L.E. 227
- , see Montero, R. 433
- Van der Linden, W.E., see Dribergen, R.J. 285
- Verboom, W., see Dribergen, R.J. 285
- Vetere, V.F., see Romagnoli, R. 331
- Wang, J.
- Modified electrodes for electrochemical detection in flowing streams 41
- , Naser, N. and Ozsoz, M.
- Plant tissue-based amperometric electrode for eliminating ascorbic acid interferences 315
- Wechter, C.
- and Osteryoung, J.
- Voltammetric characterization of small platinum-iridium-based mercury film electrodes 275
- Weginwar, R.G., see Chute, G.S. 445

- Widmer, H.M., see Bruno, A.E. 259  
—, see Thommen, C. 141
- Wijesuriya, D.  
—, Lin, M.S. and Rechnitz, G.A.  
Grape tissue-based electrochemical sensor for the determination of hydrogen peroxide 453
- Woldemariam, T.Z., see Fell, A.F. 89
- Xun, Y.-M., see Yu, F.-B. 487
- Yan, Z.  
— and Tang, X.  
Automated establishment and plotting of multivariate functions 493
- Yáñez-Sedeño, P.  
—, Manuel de Villena, J., Pingarrón, J.M. and Polo, L.M.  
Polarographic determination of pirimicarb 309
- Yang, W., see Dremel, B.A.A. 107
- Yarnitzky, C., see Goldik, R. 161  
—, see Noufi, M. 475
- Yu, F.-B.  
—, Xun, Y.-M. and Cheng, W.-T.  
Structure/property correlation of substituted compounds based on graph theory 487
- Zagatto, E.A.G.  
—, Arruda, M.A.Z., Jacintho, A.O. and Mattos, I.L.  
Compensation of the Schlieren effect in flow-injection analysis by using dual-wavelength spectrophotometry 153
- Zhang, P.  
— and Ren, Y.  
Chemical approach to ill-conditioned calculation problems in spectrophotometry 483
- Zhao, Z., see Jiang, M. 403